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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/519,727	03/03/2000	Kok-Wui Cheong	STFUP014 6703		
7590 08/04/2004			EXAMINER		
CRAWFORD	MAUNU LAND DRIVE SUITE3	CORRIELUS, JEAN B			
ST PAUL, MN 55120			ART UNIT	PAPER NUMBER	
			2637	19	
			DATE MAILED: 08/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>		Applicant (a)			
Office Action Summary		Applicati	on No.	Applicant(s)			
		09/519,7	27	CHEONG ET AL.			
		Examine	T	Art Unit			
		Jean B C		2631			
Period fo	The MAILING DATE of this communication Reply	on appears on th	e cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR I MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate of period for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CON. CFR 1.136(a). In no evition. s, a reply within the starpend will apply and wystatute, cause the app	ent, however, may a reply be tin tutory minimum of thirty (30) day rill expire SIX (6) MONTHS from blication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed or	<u>21 June 2004</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	☑ Claim(s) <u>1-24</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	☑ Claim(s) <u>1-4 and 6-24</u> is/are allowed.						
6)⊠	Claim(s) <u>5</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)[The specification is objected to by the Ex	aminer.					
10)[The drawing(s) filed on is/are: a)	accepted or b	☐ objected to by the I	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
* (3)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the certified copies of the priority document of the certified copies of the application from the International Expectation from the International Expectation for the attached detailed Office action for acknowledgment is made of a claim for document of the foreign language acknowledgment is made of a claim for document of the foreign language acknowledgment is made of a claim for document of the first sentence was included in the first sentence.	uments have been uments have been e priority docume Bureau (PCT Ruit a list of the cert omestic priority unthe first sentence ge provisional appressic priority unterprise priority unterp	en received. en received in Application received in Application received in Application at 17.2(a)). ender 35 U.S.C. § 119(a) of the specification or application has been received at 18.5 U.S.C. §§ 120	on No ed in this National Stage d. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific			
Attachmen	• •						
2) 🔲 Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449) Paper I			(PTO-413) Paper No(s) atent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

Claim 5, "HPNA" needs to be expanded. The same comment applies to claim 19. claim 6, "VDSL" needs to be expanded. The same comment applies to claim
 Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakurai et al US Patent No. 5,594,756 in view of applicant's background of the invention.

Sakurai teaches a method and apparatus comprising receiving an input signal that includes a primary data signal and an interference portion see col. 1, lines 14-26; iteratively computing an estimate (probable) of the interference portion using estimator 80 (note that the noise portion is iteratively computed because of the presence of the feedback path); calculating the data signal based on at least in part upon the iteratively computed estimate (probable) interference portion see col. 1, lines 48-53. Sakurai does not explicitly teach that the interference signal is a crosstalk signal an HPNA signal. Cross talk signal, however, is well known in

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the art as a type of interference signal if left uncompensated for could cause distortion in the original signal. Given that, it would have been obvious to one skill in the art to modify Sakurai in such a way as to provide compensation for cross talk signal so as to ensure that the reconstructed signal is as closed as possible to the original signal. In addition, applicant's background of the invention further teaches that the HPNA is a well source of crosstalk. It would have been obvious to one skill in the art to use a HPNA device in order to take advantage of existing twisted pair wiring phone wiring for networking..

Allowable Subject Matter

- 4. Claims 1-4, 6-24 are allowed.
- 5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (703) 308-7728.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Primary Examiner

TC-2600 7/28/04